



GAMI / NEM

A vision of Disruptive Innovation
between Academia and News
Industry

Why an effort is needed?

Democracy is based on well informed people

Competitiveness relies on information

Education needs information

Freedom means information independency

Privacy is more than good doors, walls and curtains

But big players now

Controls the whole chain of Hardware, Software, Data

Follow us at any seconds of our life

Set the rules of what we can say and how we can say it

Buy the last land of freedom: buys content and publishers, set the new economic rules

Who is to blame?

Big players just do their job, and they do it well

They are coming from the academic world and understand the need for time

They have a culture of Risk

They come from another culture of investment

They have the money

They set a global market

Can We Still do Something ?

Yes!

EPFL / Ecole Polytechnique Federale de Lausanne

10'000 Students

2'000 PhD

360 Labs

1 -7 EU rankings



ECAL/Ecole Cantonal d'art de Lausanne
640 Students
Graphic Design/Product Design/
Media & Interaction Design/ Cinema
Art Direction /Fine Arts.

EPFL+ECAL LAB





EPFL+ECAL LAB

EPFL Design Center on ECAL Campus
Vice Presidency for Innovation
and Tech Transfer

Missions:
Innovation
Research
Education

Academic Partners

ECAL (Lausanne)

ENSCI (Paris)

Parsons (NYC)

RCA & HHC (London)

Funding

EPFL (Federal Budget)

Industrial Partners

Scientific and Innovation

Technical Suppliers

Private Partners

Kudelski Group

Faveo

Verallia

Agence France Presse

Vaudoise Assurances

Melissa

Lombard Odier

Vacheron Constantin

Logitech

Red Cross Museum

Louis Vuitton

Montreux Jazz Festival

Pro Senectute

Décision

Solaronix

Collaborators

Interaction designers

Graphic designers

Object designers

Software Developer

Computer engineers

Electronic Engineer

Material science engineer

UX/UI Analyst & researcher

Research architects



Disruptive Innovation?

Innovation involves adoption

But how people can adopt something not in relation to what they know?

Toward Adoption

Academia

-> Disruptive technologies (ex Scala)

-> Disruptive scenarios (ex. Twitter)

-> Set it in the cultural and social context of the user

Project instigation

Emerging technologies

Industrial needs

Societal needs

User needs

But the goal is a new experience for the users !



The COP21 Challenge

3 Labs together

Science Po Paris

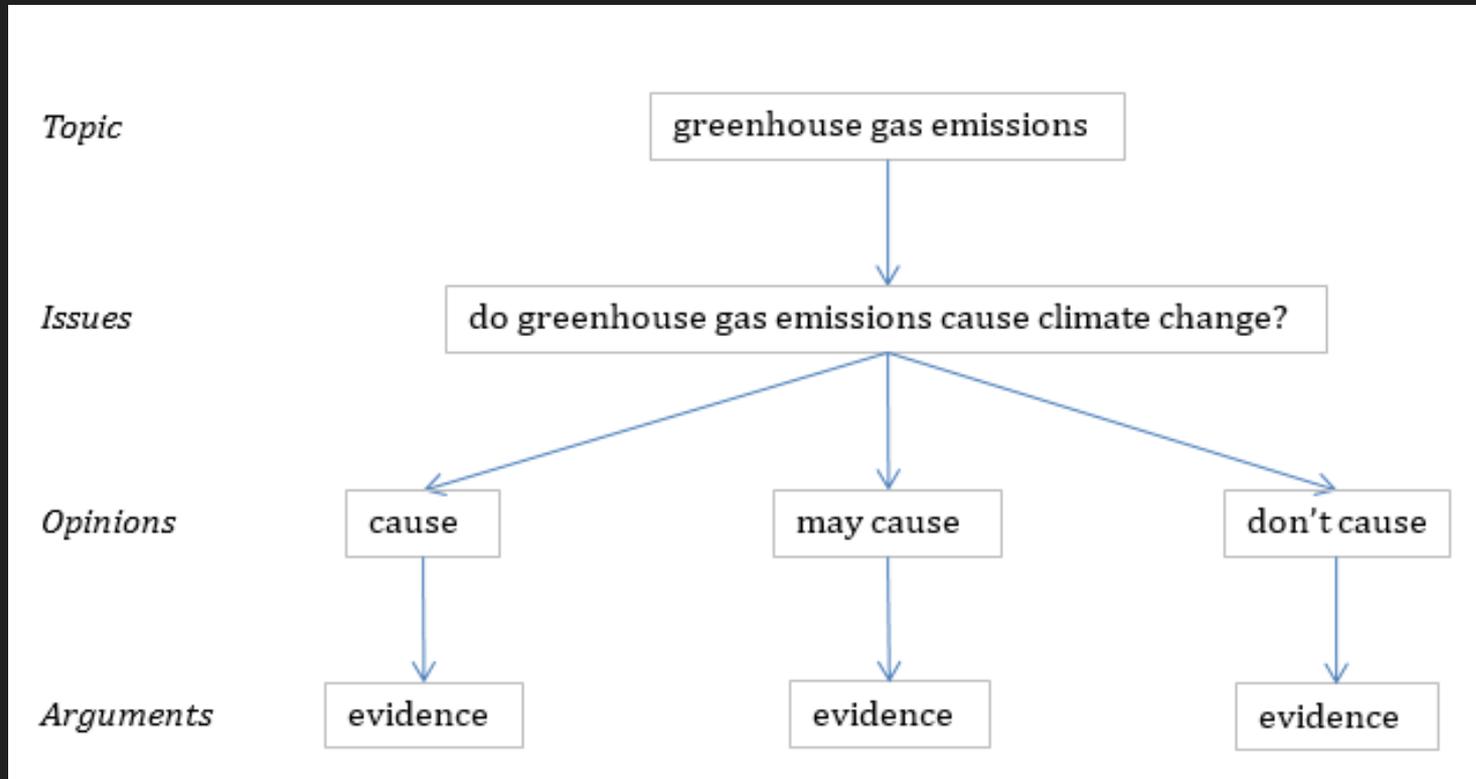
Understanding the challenges in complex public debates

Distributed system Laboratory/EPFL

Big Data Analysis

EPFL+ECAL Lab

Designing a user experience



Countries (C)

States

(ex. France, China, USA...)

Groupings

(ex. AOSIS, Umbrella Group, G77, Annex I, OCDE...)

Issues (I)

Themes or Topics

(ex. forestry, migration, sea level rise, *Bangladesh*, *Small Island States**...)

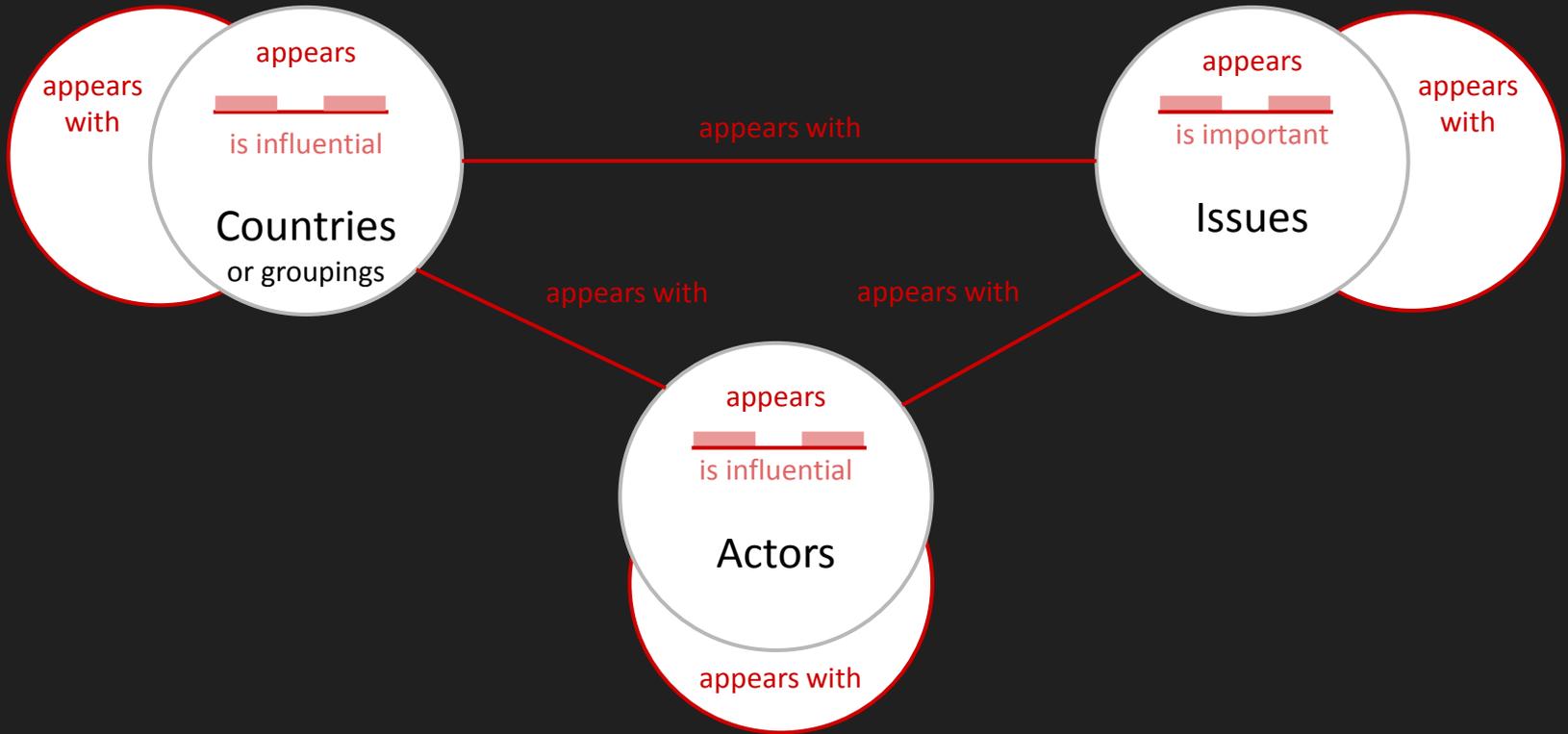
Actors (A)

Experts & Spokespersons

(ex. Rajendra K. Pachauri, Christiana Figueres, Laurent Fabius...)

Institutions

(ex. SBSTA, IPCC, UNDP, World Bank...)

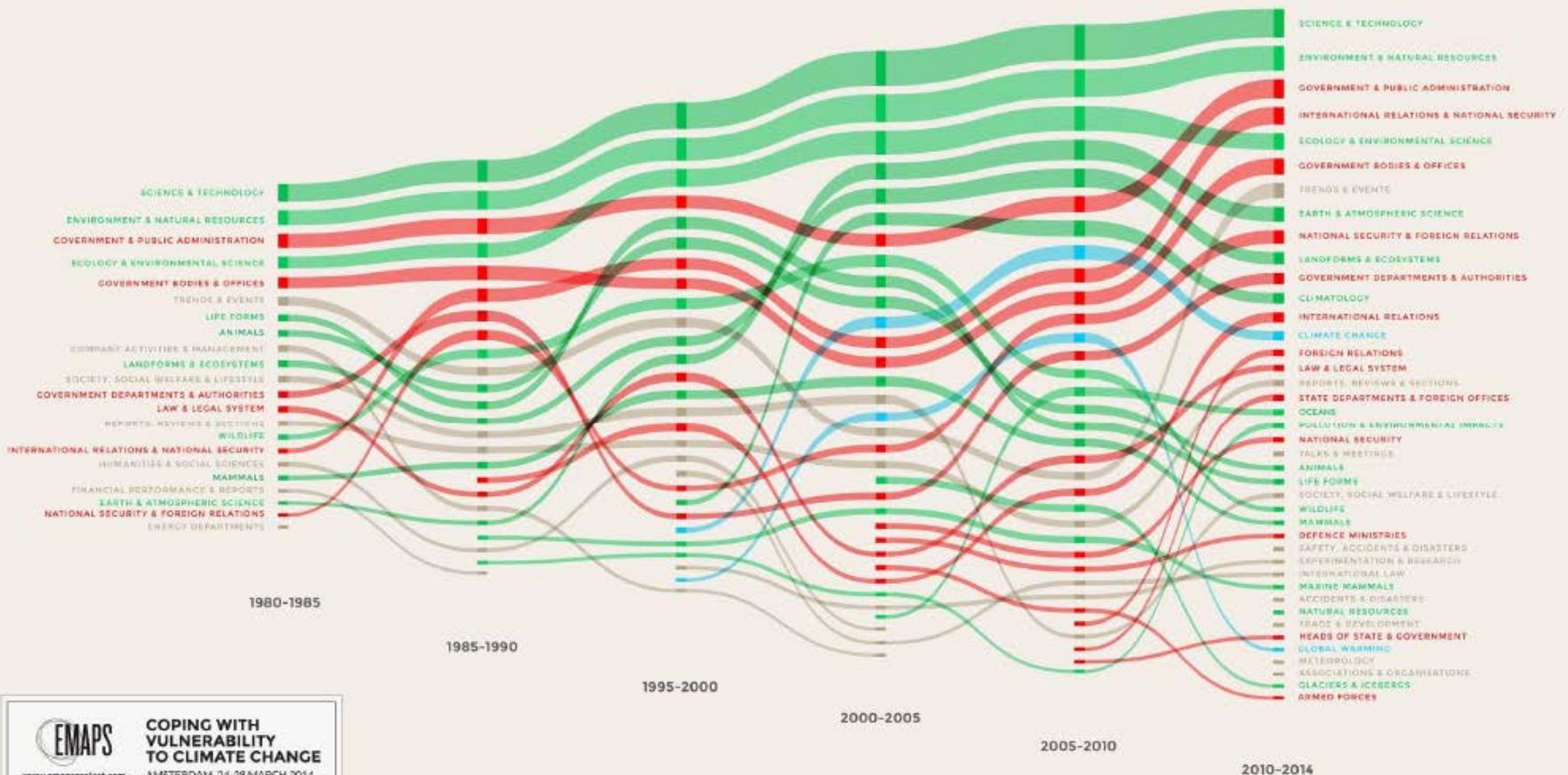


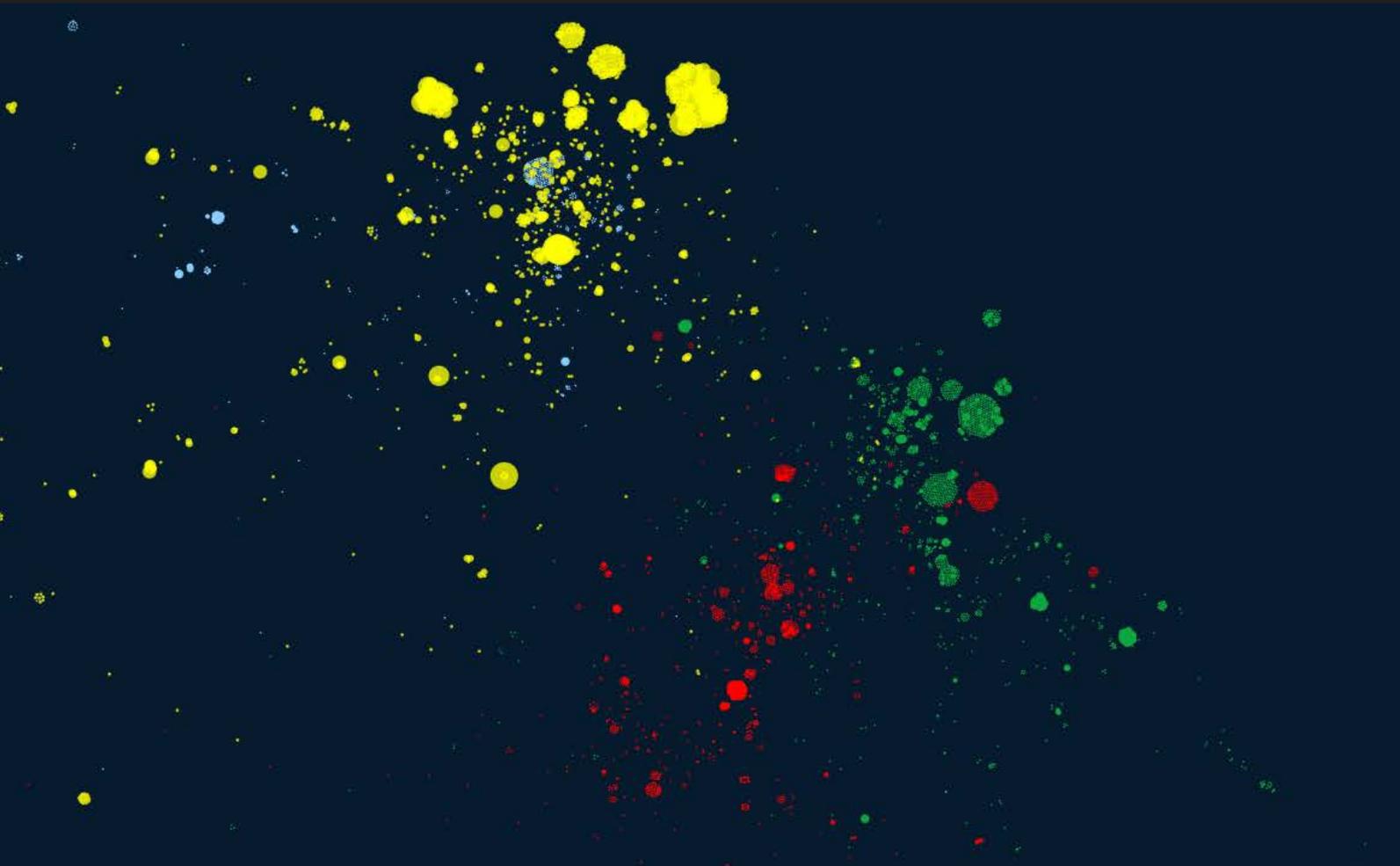
1 master arena	6 secondary arenas					
UN negotiations	Twitter	Web	Scientific Literature	IPCC	Climate Funding	Climate Projects
ENB reports UNFCCC newsroom UNFCCC negotiation documents The ECO news letters	Twitter APIs Twitter special data access	Climate-related websites (more precisely Hype web entities The (clean) text extracted from these websites	Bibliographical notices from ISI Web of Science Notices from Scopus	Assessment and special reports by IPCC Summary for Policy Makers (SPR) and Synthesis Reports (SYN)	Climate Funds Update OECD Official Development Assistance World Bank	UNDP adaptation learning mechanism Ci-Grasp UNFCCC Private Sector Initiative ClimateWise NAPAs

**Issuefication
of the Arctic
on mainstream media
during time**
*Lexis Nexis database

MAIN ISSUES:

- ENVIRONMENTAL ISSUES
- SECURITY ISSUES
- CLIMATE CHANGE & GLOBAL WARMING
- OTHERS





Nbody simulation result

Each circle on the picture corresponds to a tweet. Proximity between tweets is calculated based on concepts in the tweet.
*Zoom: use mouse wheel
*Pan: drag sing mouse

 OR | *check to use "AND"*

Color picture by:

- 'Climate change' and 'Sea level rise'
- 'Fossil fuels' and 'GHG emissions'
- 'Climate change' and 'Weather extremes'

Twitter Post

[@Edgemonsia](#) There's no Arctic sea ice decline and it isn't warming because it's still "totally frozen" up there. [@Mao_Tse_Bama](#)

Date: 2014-04-12 06:06:14

Retweets: 0

User: TalkingOutOfMyHat

Description

Writer, sceptic, geek. Has a hat to talk out of. All knowledge is subjective but gravity still works.

Mobile based

All public magnet

Entity navigation based

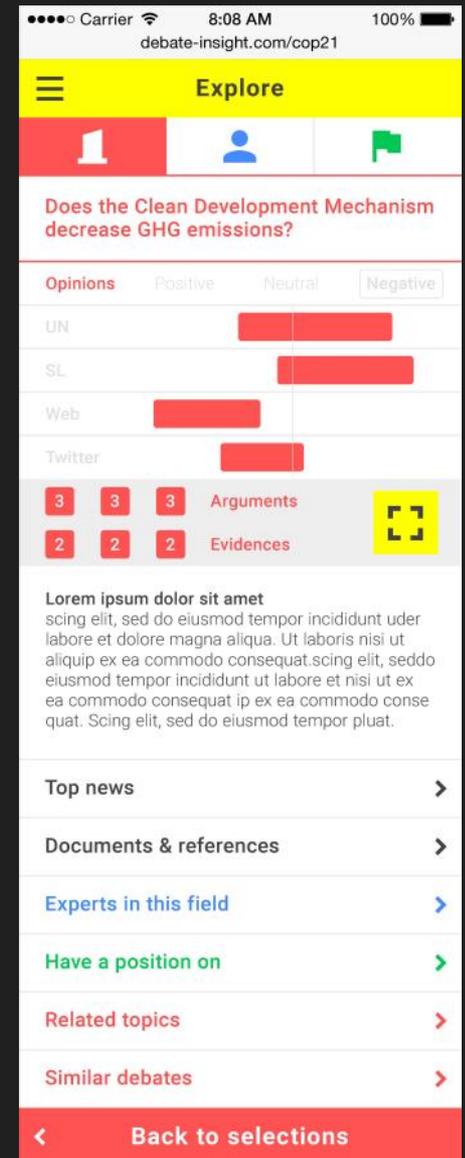
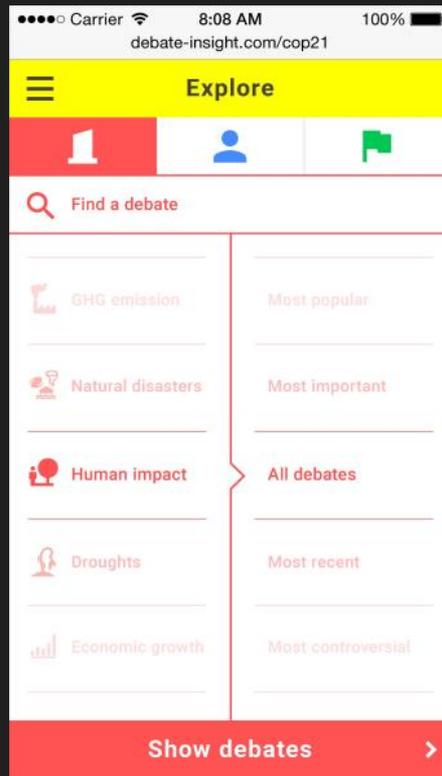
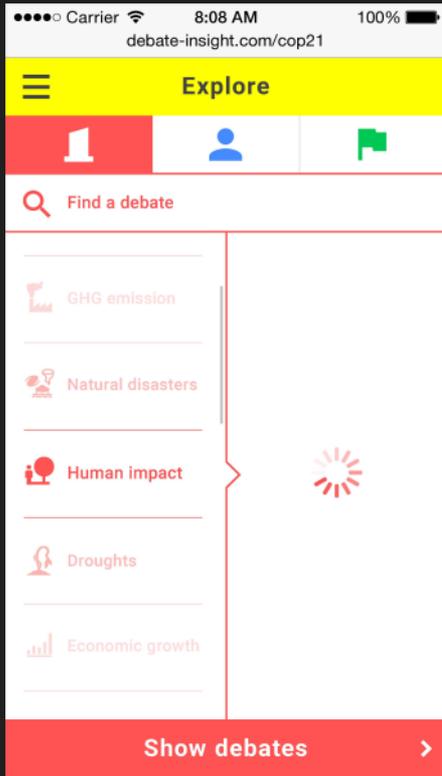
Simple two dimensional comparison

Meaningful relations

Icon / Text for efficiency / flexibility



Data interactions



Data Interactions

Carrier 8:08 AM 100%
debate-insight.com/cop21

Explore

Does the Clean Development Mechanism decrease GHG emissions?

Opinions Positive Neutral Negative

UN SL Web Twitter

3 3 3 Arguments
2 2 2 Evidences

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Top news >
Documents & references >
Experts in this field >
Have a position on >
Related topics >
Similar debates >

Back to selections

Carrier 8:08 AM 100%
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Opinions Timeline Map

Does the Clean Development Mechanism decrease GHG emissions?

Positive Neutral Negative

SL Web Twitter ENB

All UNFCCC Scientific literature Web Twitter ENB

Carrier 8:08 AM 100%
debate-insight.com/cop21

Opinions **Timeline** Map

Does the Clean Development Mechanism decrease GHG emissions?

2010 2011 2012 2013 2014 2015

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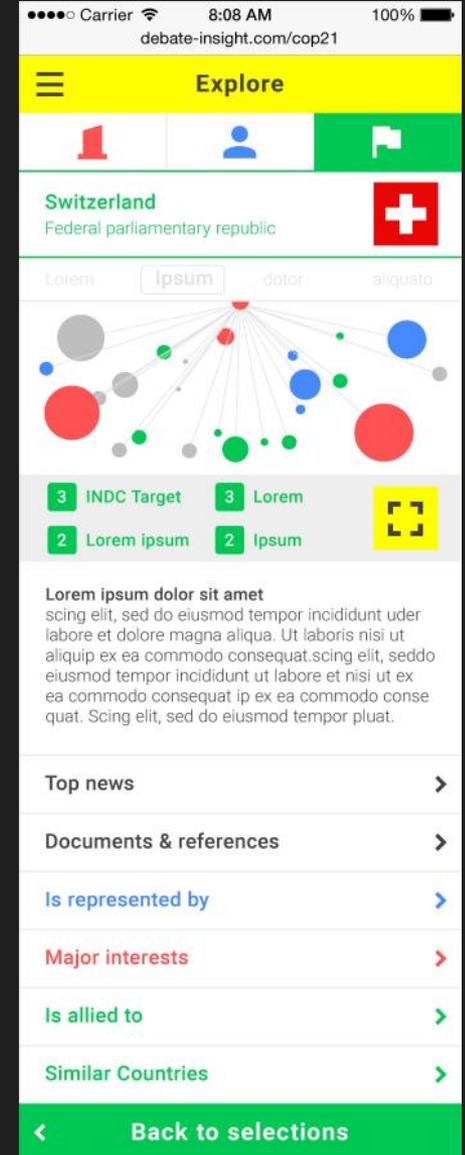
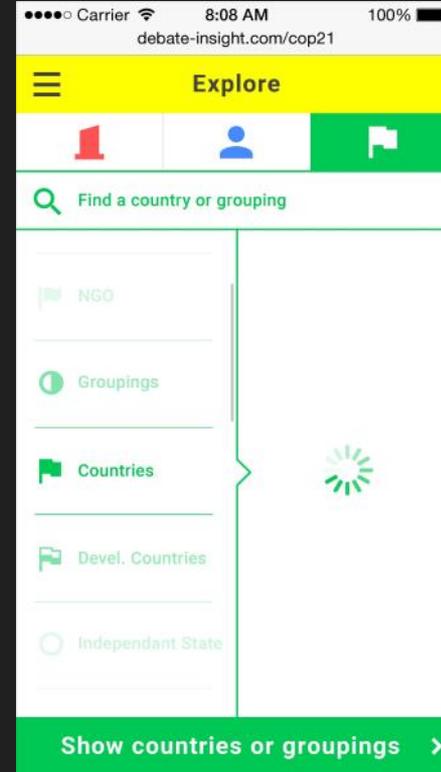
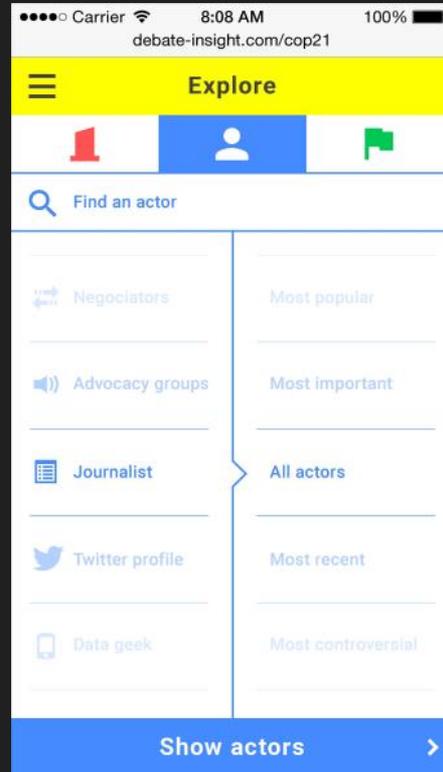
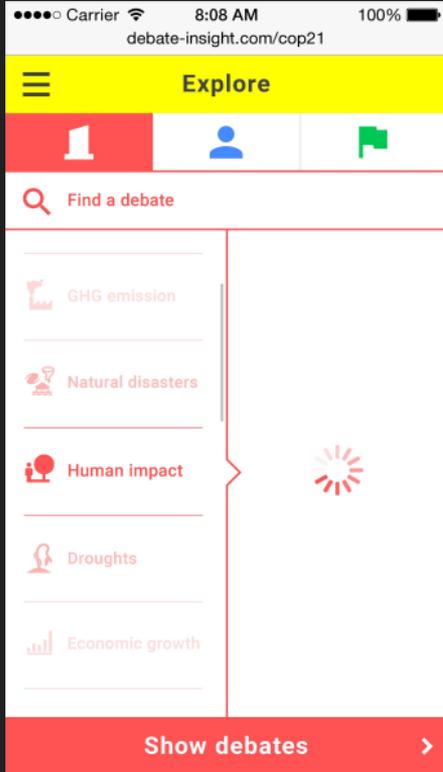
Carrier 8:08 AM 100%
debate-insight.com/cop21

Opinions Timeline **Map**

Does the Clean Development Mechanism decrease GHG emissions?

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Entities Navigation



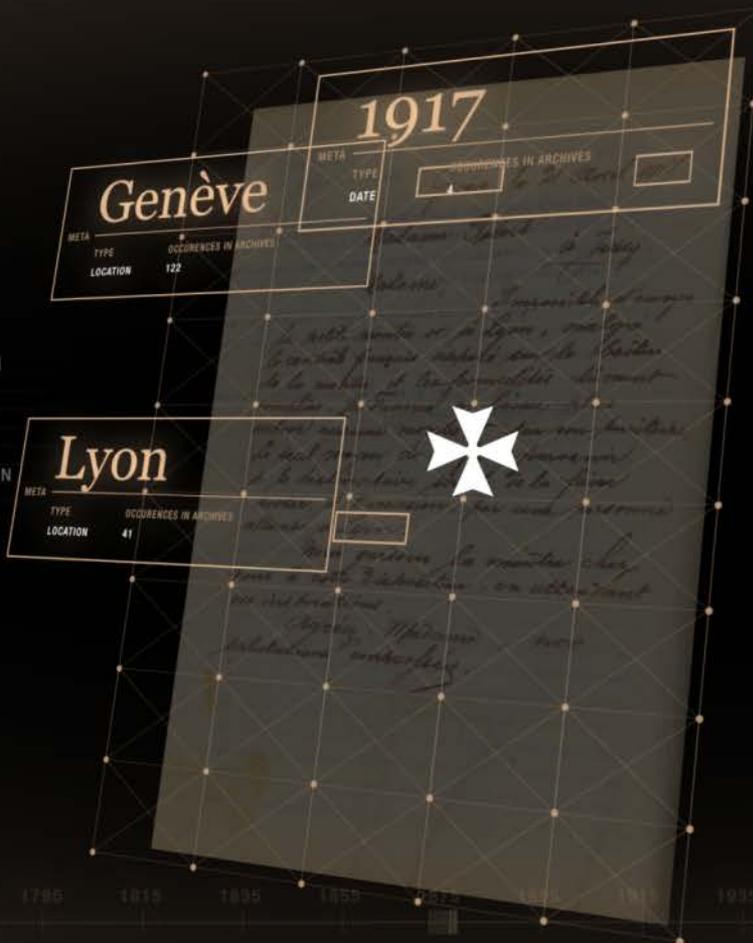
CLUSTER
GENÈVE

ENTITIES
322

00000182

CHOOSE A DESTINATION

- GENÈVE
 - * LYON
 - 1917
- JEAN-BAPTISTE MÜLHSTEIN
- [BACK TO TIMELINE](#)



CONTEXT

World War gives the company an opportunity to strengthen its links with the American market. When the United States entered the war in 1917, it set up an office in Geneva to buy equipment for the American expeditionary force.

[READ MORE](#)

1750 1775 1790 1810 1830 1850 1870 1890 1910 1930 1950 1970 1990 2015

00:03:52



CONTEXT

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[READ MORE](#)

CLUSTER
GENÈVE

ENTITIES
322



Devices exploration

- Freedom
- Identity
- Status



More than magic, it's about generating knowledge

To imagine disruptive scenario of use

Creating new expression systems

True transdisciplinary effort, combining differences

Short and long term vision

Taking risks

Creating disruptive ways to capture value

What can be done?

Increased impact by integrating isolated project in a global vision

Set a strong network of Publishers, Start ups, SME, Academic Labs

Innovation based UX rather than only techno push

Call should include new type of content, new UX

Project should involve creative economics: disruptive strategies to capture value

Project should be pragmatic but still able to create knowledge

Improve communication though convincing Showcase

Better understanding of Long term and short term.

How does it fit into H2020?

One Next Step

Sports News Innovation Lab

Wan-IFRA / GAMI

EPFL

AISTS - Academy of Sports Science and Technology

23 International sports federation

IOC

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